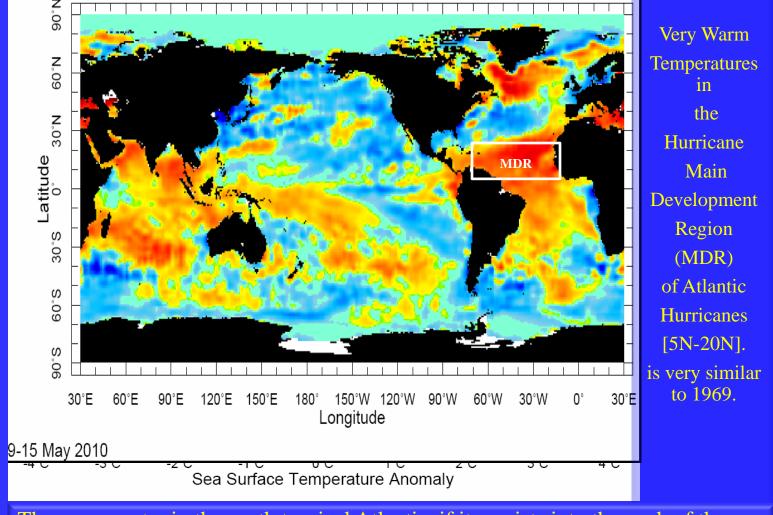
Weekly Climate Update May 18th 2010

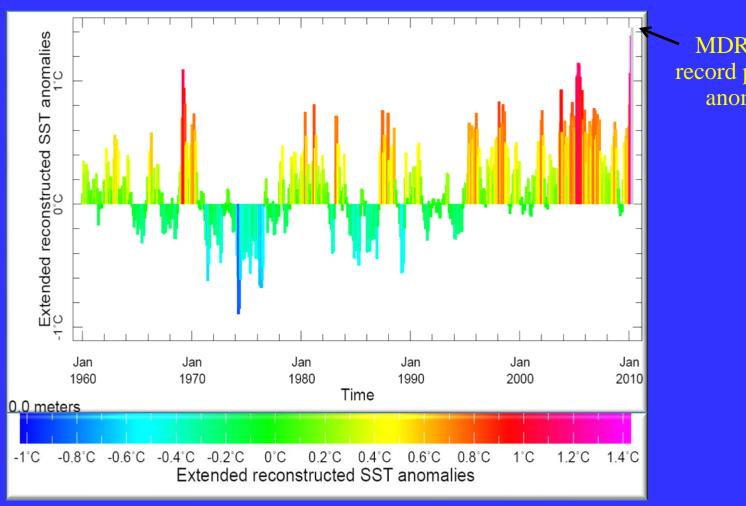
- ➤In the most recent official CPC seasonal climate outlook made April 15th there is only one climate window with a shift in the climate regime predicted to vary from climatology (towards wet or dry). That one is towards drier than normal for the January-March 2011 climate window. In the March 2010 CPC Outlook there were several windows shifted towards increased chances of above normal rainfall. A new outlook is scheduled to be posted this Thursday.
- ➤In it's new ENSO prediction made this week, CPC predicted cooler than normal equatorial Pacific sea surface temperatures but the anomalies are not large enough to fit the definition of La Nina.
- The North Tropical Atlantic SSTs are near or at record warmth and updates of the CFS predictions are continually hedging towards cooler tropical Pacific SST for later this summer. The evolution of the tropical oceans will need to be continually monitored in the upcoming months.

Latest Weekly Global Sea Surface Temperature Anomaly



The warm water in the north tropical Atlantic, if it persists into the peak of the hurricane season, creates climatologic conditions that favors a more a more active tropical season overall.

Tropical Atlantic Ocean Sea Surface Temperature Anomaly within the Hurricane Main Development Region (MDR)



MDR has a record positive anomaly



Niño Region SST Departures (°C) Recent Evolution

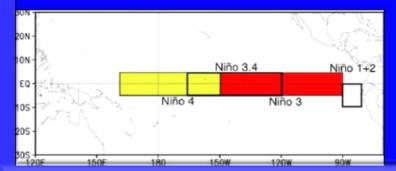
The latest weekly SST departures are:

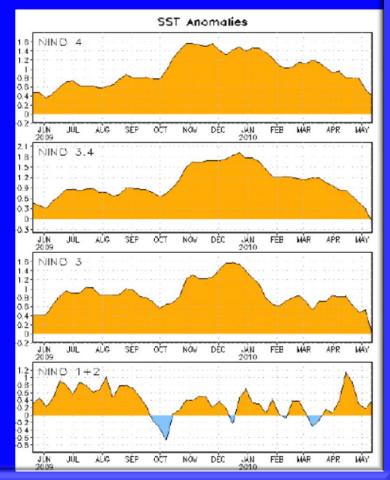
Niño 4 0.4°C

Niño 3.4 -0.1°C

Niño 3 0.0°C

Niño 1+2 0.4°C

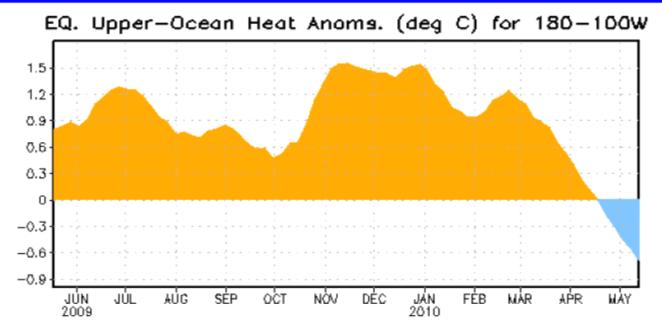




Two of four equatorial Pacific sea surface temperature indices near zero.



Central & Eastern Pacific Upper-Ocean (0-300 m) Weekly Heat Content Anomalies

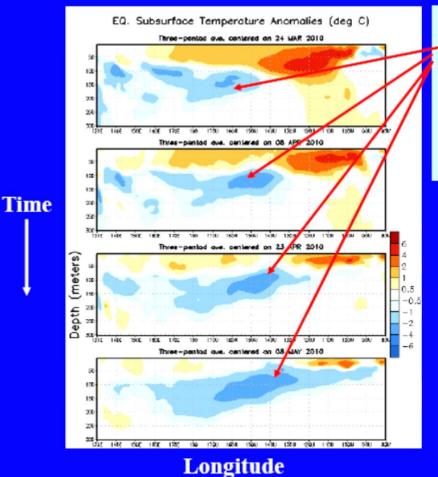


Since April 2009, the upper-ocean heat content has been above average across the eastern half of the equatorial Pacific Ocean. Sharp increases in heat content during June and October 2009 coincide with the development and subsequent strengthening of El Niño, respectively. Since late February 2010, the heat content anomalies have steadily decreased and become negative.

The rate of decline of the upper ocean heat content along the equatorial Pacific continues at a rapid pace. As seen on the last graph this decline in the heat content is beginning to reach the sea surface temperature anomalies. Negative upper ocean heat content increases the possibility for the development of La Nina conditions.



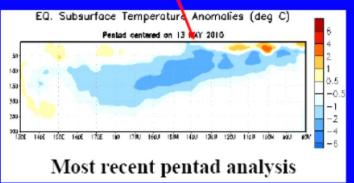
Sub-Surface Temperature Departures (°C) in the Equatorial Pacific



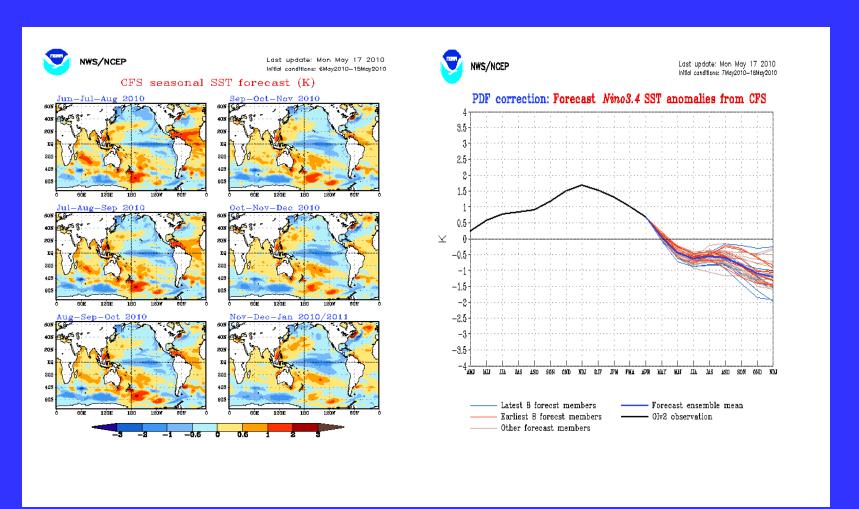
- Since early March 2010, negative

 subsurface temperature anomalies have

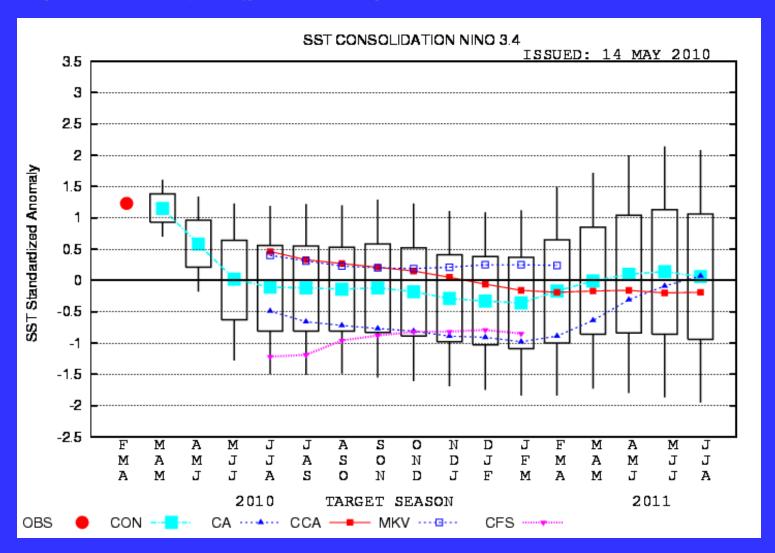
 shifted eastward in association with the upwelling phase of an oceanic Kelvin wave
- Recently, below-average subsurface temperatures have extended to the surface in the east-central Pacific Ocean.



Climate Forecast System El Nino Ensemble

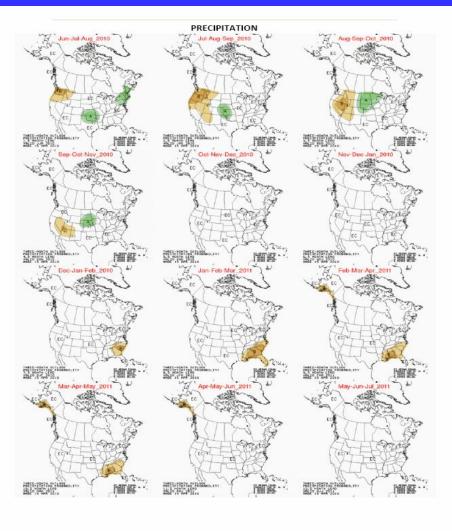


Official El Nino-Southern Oscillation Forecasts released



Three Month Overlapping Seasonal Outlook

Climate Prediction Center



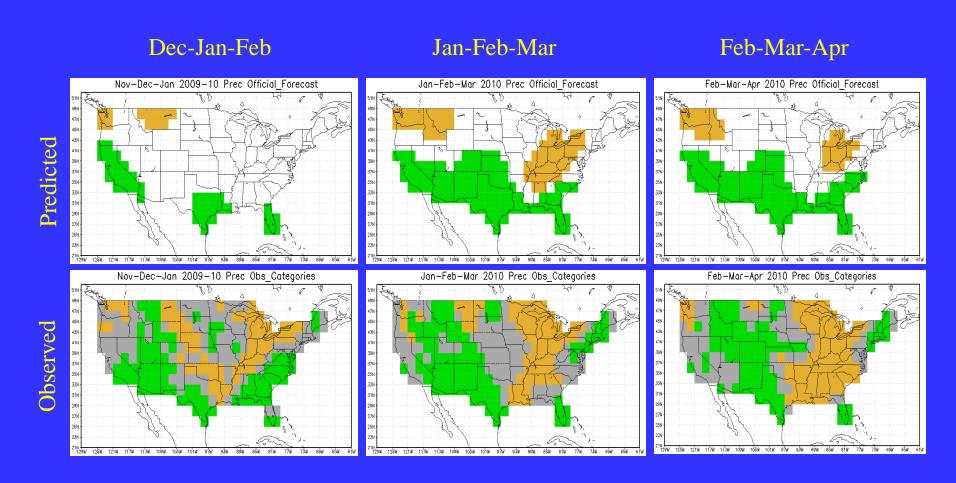
Vector Wind Vector Wind NCEP/NCAR Reanalysis NCEP/NCAR Reanalysis 1000 mb) Surface Upper Atmosphere (500 mb)

May 1st -15th Climatologic

May 1st -15 Actual

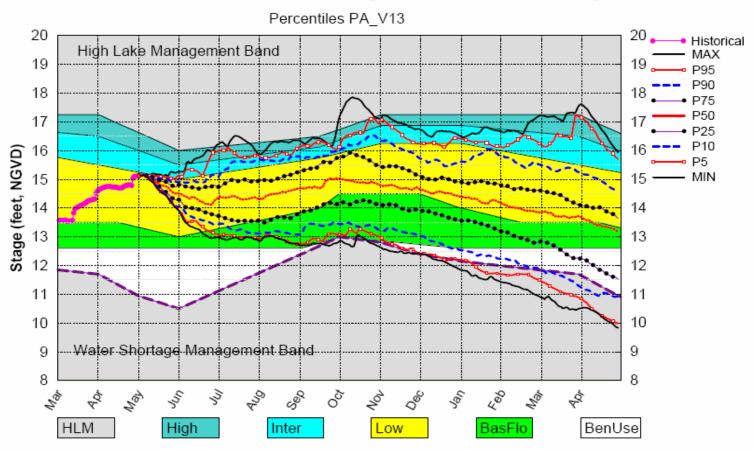
Low latitude surface easterly winds less than normal in the Atlantic Basin. This explains the positive in the tropical oceans.

CPC Seasonal Climate Outlook Versus Observed



Position Analysis (PA) Percentiles

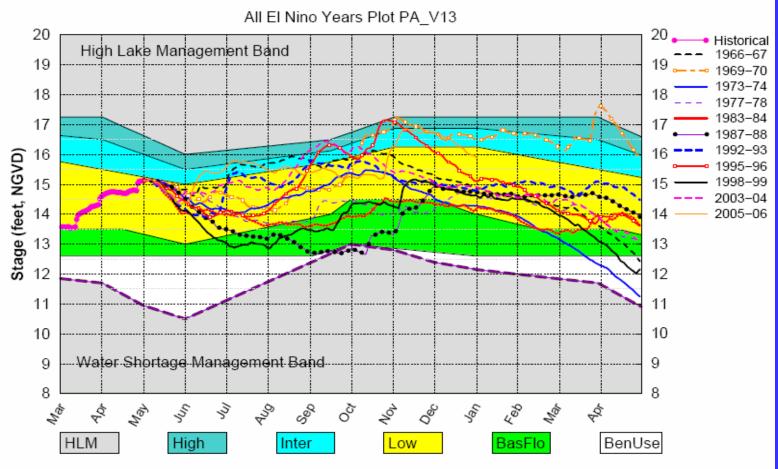
Lake Okeechobee SFWMM May 2010 Position Analysis



(See assumptions on the Position Analysis Results website)

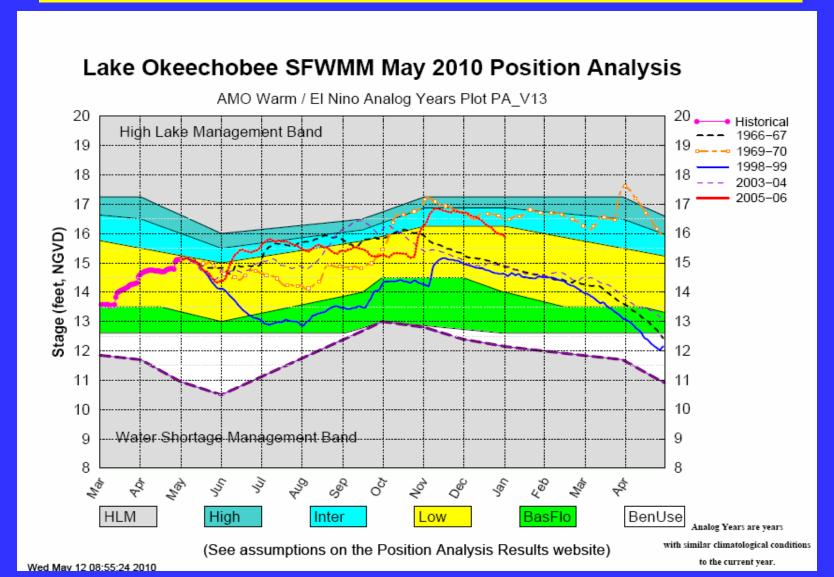
Position Analysis (PA) for El Nino years

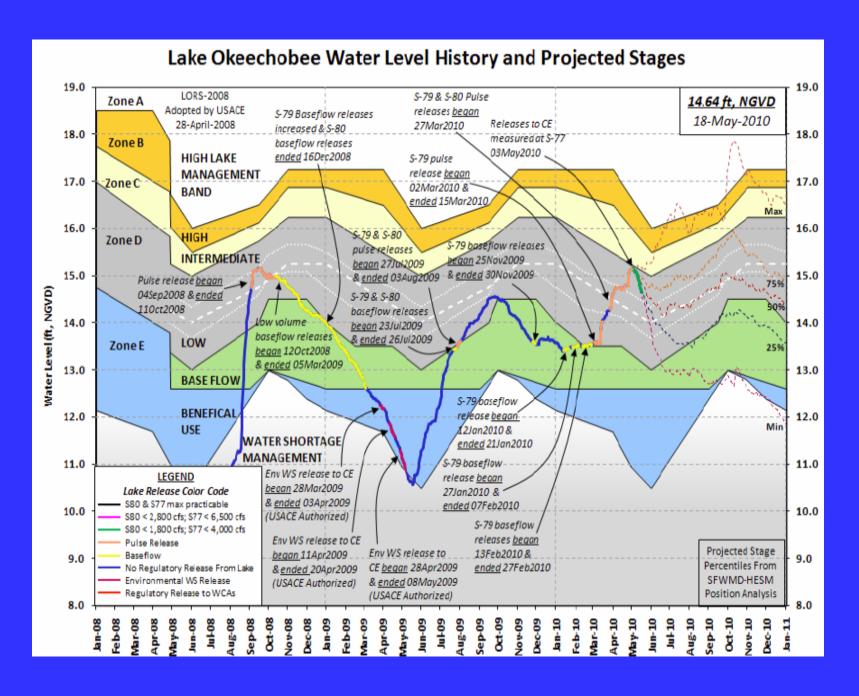
Lake Okeechobee SFWMM May 2010 Position Analysis



(See assumptions on the Position Analysis Results website)

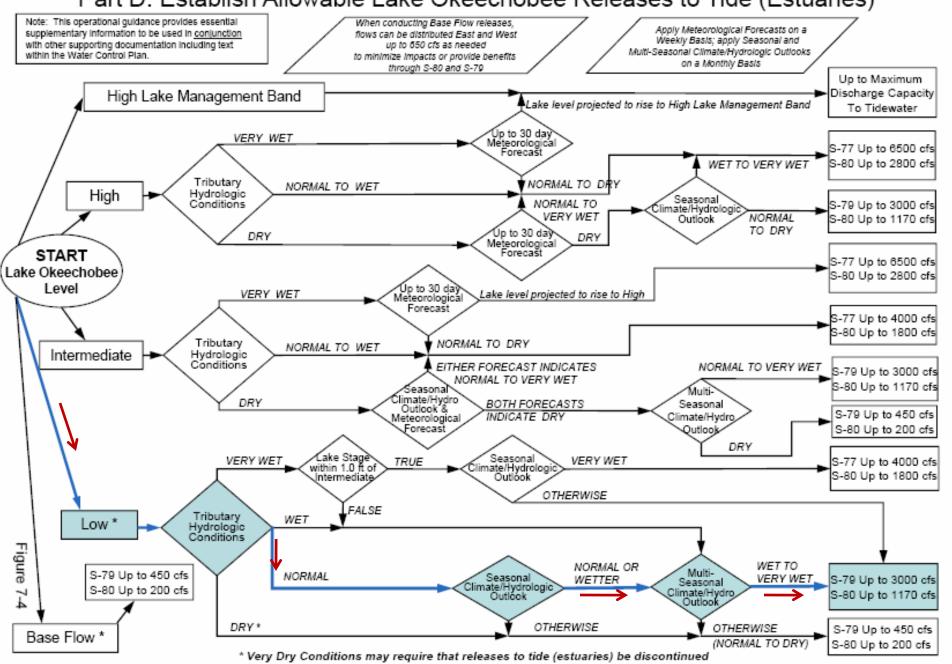
Update Position Analysis (PA) for AMO Warm/El Nino Years





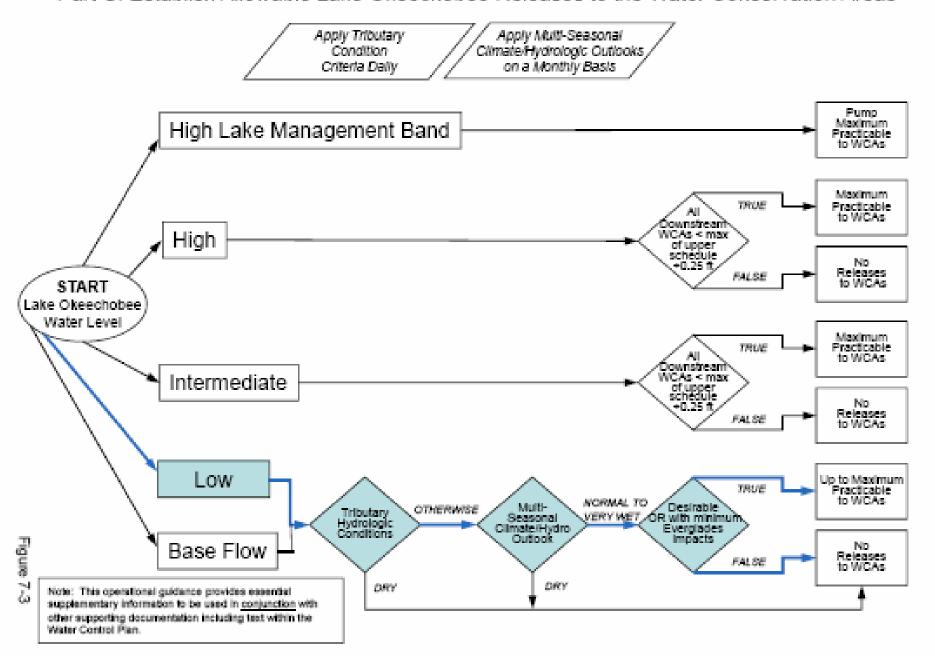
2008 LORS

Part D: Establish Allowable Lake Okeechobee Releases to Tide (Estuaries)



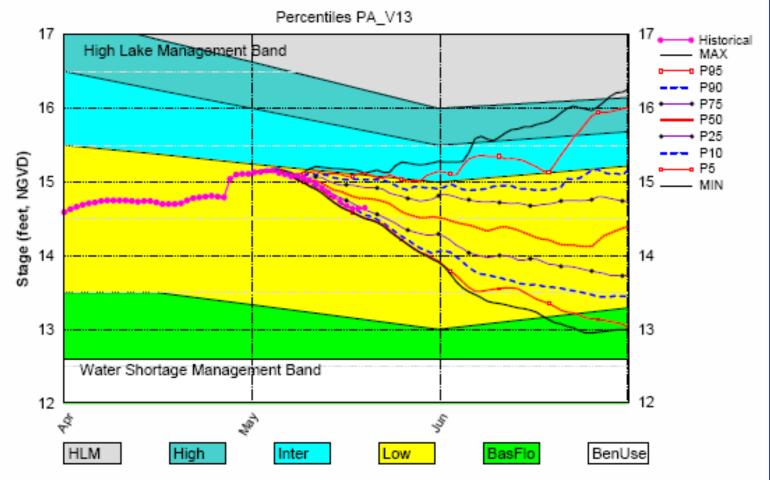
2008 LORS

Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas



Lake Okeechobe Zone	ee Management ⁄Band	Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Manage	ement Band	16.29	
Operational Band	High sub-band	15.73	
	Intermediate sub-band	15.11	
	Low sub-band	13.15	← 14.64
Base Flow sub-band		12.60	
Beneficial Use sub	o-band	10.69	
Water Shortage Management Band			

Lake Okeechobee SFWMM May 2010 Position Analysis



(See assumptions on the Position Analysis Results website)

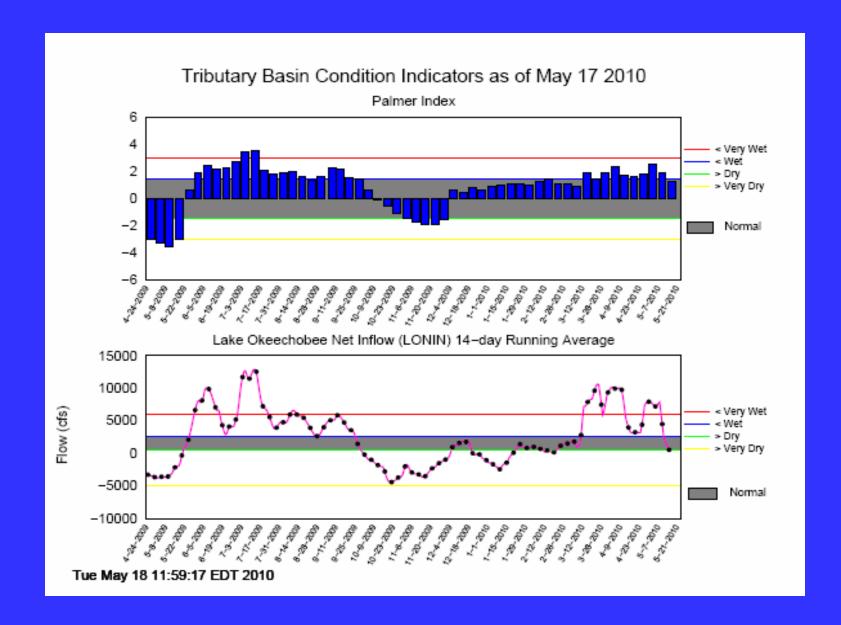


Table of the Lake Okeechobee Net Inflow Outlooks in feet of equivalent depth. All methods are updated on a weekly basis with observed net inflow for the current month.

Season	Croley's Method ¹		SFWMD Empirical Method ²		Sub-sampling of El Nino ENSO Years³		Sub-sampling of AMO Warm + EI Nino ENSO Years ⁴	
	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (May- Oct)	2.66	Very Wet	2.28	Very Wet	2.42	Very Wet	3.99	Very Wet
Multi Seasonal (May- Apr)	3.12	Wet	2.75	Wet	4.15	Wet	6.32	Very Wet

See Seasonal and Multi-Seasonal tables for the classification of Lake Okeechobee Outlooks.